



PROJECT NUMBER 170039	BORING NUMBER MW-105
SOIL BORING LOG	

PROJECT : EBT Treatability Study	LOCATION : Memphis Depot
ELEVATION :	DRILLING CONTRACTOR : Boart Longyear
DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)	
WATER LEVELS :	START : 04/30/2002 END: 05/01/2002 LOGGER : Mike Karafa

DEPTH BELOW SURFACE (FT)				STANDARD		SOIL DESCRIPTION		COMMENTS	
INTERVAL (FT)				PENETRATION		SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.		DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.	
RECOVERY (%)				TEST RESULTS					
#/TYPE				6"-6"-6" (N)					
						Asphalt and gravel		Corrected FID (ppm): <i>(Soil headspace)</i>	
100						Silt, brown, stiff, loess		0.0	
5								0.0	
10								0.0	
15								0.0	
20								0.0	
25						Sand, orange, fine grained, loose, dry		0.0	
						Silty Sand, reddish brown, fine to medium grained, poorly sorted, stiff			
30						Silty Sand, fine to medium grained, poorly sorted, stiff, dry		0.0	
35								0.0	



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RECOVERY (%)				TEST		
#/TYPE				RESULTS		
				6"-6"-6" (N)		Corrected FID (ppm):
40		100			Sand, yellow, fine to medium grained, poorly sorted, loose, dry	0.0
					Silty Clay, tan, stiff, dry	
					Sand, yellow, fine to coarse grained, poorly sorted, loose, dry	0.0
45					Sand, yellow to tan, fine to coarse grained, poorly sorted, some gravel, pebbles to cobble, loose, dry	11.2
50		100				0.0
55					Sand, orange, fine to coarse grained, gravel, pebbles to cobbles, loose, damp	
					Sand, reddish orange, fine to coarse grained, poorly sorted, loose, damp	0.0
60					Same as above	
					Sand, white, fine to coarse grained, poorly sorted, gravel, loose, damp	0.0
65					Sand, white, fine grained, loose, dry	
						0.0
70		100			Silty Sand, dark gray, fine grained, loose	
					Sand, white, fine grained, loose, dry	
					Sandy Silty Clay, tan to red, fine grained, stiff, dry	0.0
					Sand, white, loose, fine grained, dry	



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DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (%)	#/TYPE	STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.	COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. Corrected FID (ppm):
75					Clay, tan with light orange mottling, stiff, massive, damp	0.0
80	100				Silty Sand, tan, fine grained, well sorted, damp	0.0
85					Sand, white, fine grained, loose, dry	0.0
90	100				Sand, gray, fine grained, loose, wet	0.0
95					Sandy Clay, tan, stiff, wet	Water table @ 96 ft bgs
					Sand, gray, fine grained, loose, wet	
					Sand, orange, fine to coarse grained, gravel, wet	
					Clay, some silt, stiff, gray, mottling, massive, wet	
100	100					
105					Boring terminated at 105 ft bgs	
110						